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THE ELECTRICAL SUPPLY, AND CERTAIN NEW ADDITIONS TO THE LABORATORY EQUIPMENT, IN THE STANFORD UNIVERSITY PSYCHOLOGICAL LABORATORY

By LILLIEN J. MARTIN

A. *Electrical Supply*

A different means of obtaining our electrical supply has been introduced since the publication of my earlier article.¹ The direct current which is employed for general laboratory work and for charging the batteries connected with the laboratory switch-board,² is generated by a Cooper-Hewitt rectifier³ which has been substituted for the direct current motor mentioned in my earlier article. The alternating current is supplied to the rectifier from the electric switch-board.

B. *Color-Mixer*

The color-mixer which is illustrated in Figure II has been found to be much more convenient in the beginners' laboratory work in psychology than the cheaper forms which are less readily adjusted and of less constant motion. In general, it may be said that with beginners the better forms of apparatus have proved to be more satisfactory. This motor is a Westinghouse Alternating Current Motor, 1/12 H. P., 110 Volts, 60 Cycles, 3400 R. P. M.; Style No. 63782 A. It is fitted with an arbor for discs; and it cost sixteen dollars.

Figure III shows how these motors may be combined for class demonstrations in the simultaneous comparison of the different phenomena of color-mixing. The use of individual or of general switches brings the motors into action singly or in groups.

C. *Adjustable Discs*

"Paste (or pin) a white ring upon the red disc, centering it as accurately as possible. The ring is much brighter than

¹ *American Journal of Psychology*, xvii, 1906, 274-279.

² The rectifier and the switch-board are illustrated in Figure I.

³ The rectifier is manufactured by the Westinghouse Electric Mfg. Co., Pittsburgh, Pa., at a cost of seventy-five dollars. It is described as 110 A. C. volts, 5 D. C. amperes, 15 D. C. volts; Style No. 104936.

its red back-ground. Paste (or pin) sectors from a black ring over a portion of the white, and set the mixer in rotation." Titchener's *Experimental Psychology*, I, 1, 16. Matters may be facilitated by the following modification of procedure: Instead of pasting, use three superposed discs, made as illustrated in Figure IV. The large and the small discs of each set are cut from the same sheet of colored paper; the intermediate disc contains sectors of black and of white, which may readily be adjusted to give the required brightness.

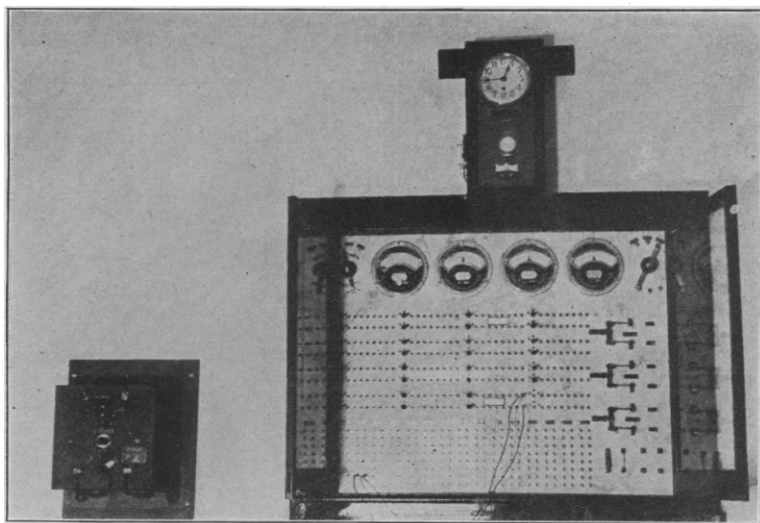


FIGURE I

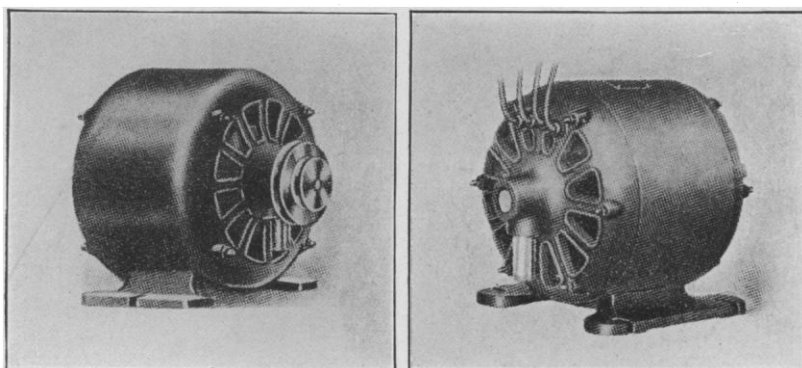


FIGURE II

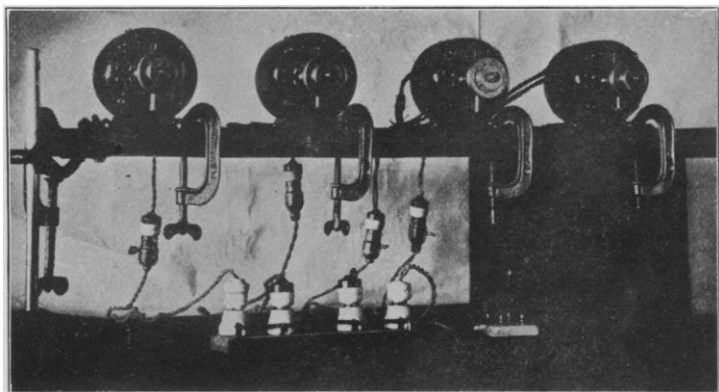


FIGURE III

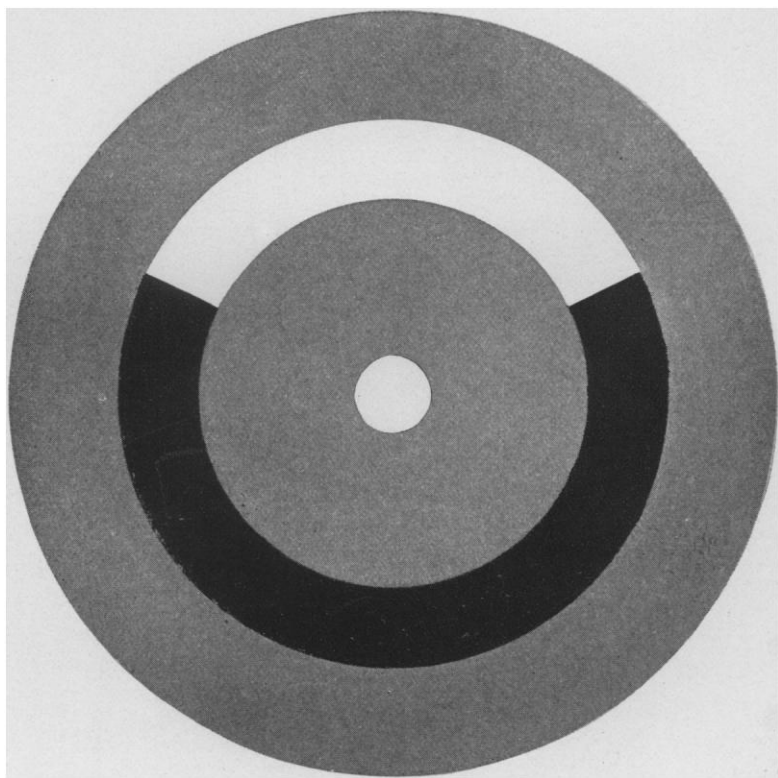


FIGURE IV